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Date: June 14, 2011

Michelle Folger
Michelle Folger

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re patent application of:

Inventor(s): Maruoka

Examiner: Brenda Libby Coleman

Serial No: 10/587,467

Art Unit: 1624

Issue Date: April 19, 2011

Patent No: 7,928,224

Title: OPTICALLY ACTIVE QUATERNARY AMMONIUM SALT HAVING AXIAL
ASYMMETRY AND PROCESS FOR PRODUCING α -AMINO ACID AND
DERIVATIVE THEREOF WITH THE SAME

**Certificate of Corrections Branch
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450**

REQUEST FOR CERTIFICATE OF CORRECTION OF PATENT

Dear Sir:

It is noted that errors appear in this patent of a clerical nature or character as more fully described below and it is believed such errors occurred in good faith and correction thereof does not involve such changes in the patent as would constitute new matter or would require reexamination. Accordingly, a Certificate of Correction is respectfully requested.

Attached hereto, are three forms PTO/SB/44 with at least one copy copy being suitable for printing.

The errors occur in the patent in columns 40-41, 97, 152, 173, 177, 181 – these errors and the correction thereof is detailed in the attached three forms PTO/SB/44.

The errors are believed to have been made by the Patent Office.

In the event any fees are due in connection with this paper, authorization is granted to charge such fees to Deposit Account No. 50-1063.

Please send the Certificate to:

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Respectfully submitted,
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UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

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PATENT NO. : 7,928,224
APPLICATION NO.: 10/587,467
ISSUE DATE : April 19, 2011
INVENTOR(S) : Keiji Maruoka

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 40, Delete Lines 63-67 "and n is an integer from 1 to 12);
(xii) $-(CH_2)_n-S-R^{12}$ (where R^{12} is a group selected from the group consisting of:
(1) a hydrogen atom;
(2) a C_1 to C_4 alkyl group that may be branched;"

MAILING ADDRESS OF SENDER (Please do not use customer number below):

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This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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UNITED STATES PATENT AND TRADEMARK OFFICE
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PATENT NO. : 7,928,224
APPLICATION NO.: 10/587,467
ISSUE DATE : April 19, 2011
INVENTOR(S) : Keiji Maruoka

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 41, Delete Lines 1-46 "(3) an aryl group, wherein the aryl group may be substituted with at least one group selected from the group consisting of:

a C₁ to C₄ alkyl group that may be branched,
a C₁ to C₅ alkoxy group that may be branched,
an aryl group that may be substituted with a C₁ to C₄ alkyl group that may be branched, a cyano group, -NR²⁰R²¹ (where R²⁰ and R²¹ are each independently a hydrogen atom or a C₁ to C₄ alkyl group), a nitro group, a carbamoyl group, an N-(C₁ to C₄ alkyl)carbamoyl group, an N,N-di(C₁ to C₄ alkyl)carbamoyl group, or -NHCOR⁹ (where R⁹ is a C₁ to C₄ alkyl group that may be branched),
a cyano group,
-NR²⁰R²¹ (where R²⁰ and R²¹ are each independently a hydrogen atom or a C₁ to C₄ alkyl group),
a nitro group,
a carbamoyl group,
an N-(C₁ to C₄ alkyl)carbamoyl group,
an N,N-di(C₁ to C₄ alkyl)carbamoyl group,
-NHCOR⁹ (where R⁹ is a C₁ to C₄ alkyl group that may be branched), and
a halogen atom; and

(4) a heteroaryl group, wherein the heteroaryl group may be substituted with at least one group selected from the group consisting of:

a C₁ to C₄ alkyl group that may be branched,
a C₁ to C₅ alkoxy group that may be branched,
an aryl group that may be substituted with a C₁ to C₄ alkyl group that may be branched, a cyano group, -NR²⁰R²¹ (where R²⁰ and R²¹ are each independently a hydrogen atom or a C₁ to C₄ alkyl group), a nitro group, a carbamoyl group, an N-(C₁ to C₄ alkyl)carbamoyl group, an N,N-di(C₁ to C₄ alkyl)carbamoyl group, or -NHCOR⁹ (where R⁹ is a C₁ to C₄ alkyl group that may be branched),
a cyano group,
-NR²⁰R²¹ (where R²⁰ and R²¹ are each independently a hydrogen atom or a C₁ to C₄ alkyl group),
a nitro group,
a carbamoyl group,
an N-(C₁ to C₄ alkyl)carbamoyl group,
an N,N-di(C₁ to C₄ alkyl)carbamoyl group,
-NHCOR⁹ (where R⁹ is a C₁ to C₄ alkyl group that may be branched), and
a halogen atom;"

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PATENT NO. : 7,928,224
APPLICATION NO.: 10/587,467
ISSUE DATE : April 19, 2011
INVENTOR(S) : Keiji Maruoka

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 97, Line 49, Delete "Pd(OAc)₂" and replace with "Pd(PAc)₂"

Column 152, Line 14, Delete "17%ee" and replace with "-17%ee"

Column 173, Line 42, Delete "K" so Line 42 reads "-NR²⁰R²¹ (where R²⁰ and R²¹ are each independently a"

Column 173, Line 51, Delete "000NR¹⁰re^{rsil}" (where R¹⁰" and replace with "OCONR¹⁰R¹¹ (where R¹⁰"

Column 177, Line 59, Delete "K" so Line 59 reads "-NR²⁰R²¹ (where R²⁰ and R²¹ are each indepen-"

Column 181, Line 29, Delete "R¹" so Line 29 reads "and x is an integer from 1 to 12); or R⁷ and R⁸ are taken"

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